

Application No.: 09/965,568  
Reply to Office Action of: March 9, 2004  
Response dated: April 8, 2004

Listing of the claims:

Please amend the claims as follows:

1. - 8. (Cancelled)

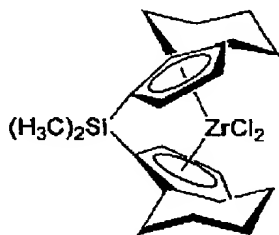
9. (Currently Amended) A mixed metallocene catalyst system comprising:

a) a dimethylsilyl-bridged bis-indenyl zirconocene dichloride,  
wherein said indenyl is saturated; and

b) a dimethylsilyl-bridged bis-indenyl zirconocene dichloride,  
wherein said indenyl is unsaturated

wherein said a) is dimethylsilylbis(tetrahydro-1-indenyl) zirconium dichloride, b) is rac-dimethylsilylbis(1-indenyl)zirconium dichloride, and wherein said a) and said b) are present in said mixed metallocene catalyst system in a ratio of 60:40 to 40:60, and wherein said catalyst is activated by methyl alumoxane.

10. (Original) The mixed metallocene catalyst system of Claim 9 wherein said dimethylsilyl-bridged bis-indenyl zirconocene dichloride of a) has a structure represented by:



wherein said structure has substituents or is unsubstituted.

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11. (Currently Amended) The mixed metallocene catalyst system of Claim 10 wherein the substituents on the ring of said a) are the same or different.
12. (Currently Amended) The mixed metallocene catalyst system of Claim 10 wherein the ring of said a) is unsubstituted.
13. (Original) The mixed metallocene catalyst system of Claim 9 wherein said system is supported.
14. (Original) The mixed metallocene catalyst system of Claim 13 wherein said support is one of silica, silicates, clay, alumina, or composite oxides.
15. (Original) The mixed metallocene catalyst system of Claim 13 wherein said support is silica.
16. (Original) The mixed metallocene catalyst system of Claim 9 wherein said mixed metallocene catalyst system is activated by one of methylalumoxane, modified methylalumoxane, or non-coordinating anions, or mixtures thereof.
17. (Original) The mixed metallocene catalyst system of Claim 9 wherein said catalyst system is activated by methylalumoxane.
18. (Original) The mixed metallocene catalyst system of Claim 9 wherein said saturated a) and said unsaturated b) indenyl groups are present in said mixed metallocene catalyst system at a ratio of 90:10, 10:90; 80:20, 20:80; 60:40, 40:60; or 50:50.
19. (Cancelled)

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20. (Original) A mixed catalyst system comprising:
- a) a bridged indenyl zirconocene dichloride wherein the indenyl group is saturated, and the substituents at each position are hydrogen; and
  - b) a bridged indenyl zirconocene dichloride, wherein the indenyl is unsaturated;
- wherein said a) and said b) are each supported separately, on a silica support;
- wherein said a) and b) are present in said mixed metallocene catalyst system in a ratio of 40:60 to 60:40; and
- wherein said mixed catalyst system is activated by methylalumoxane.

21. - 28. (Cancelled)

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